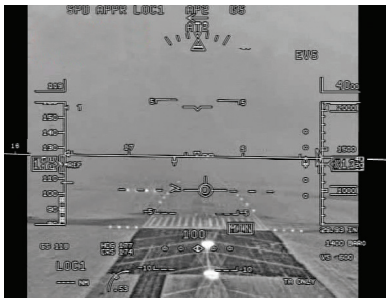


CMA-2700 Integrated Sensor Systems for Enhanced Flight Vision System Applications

Third-generation integrated sensor system, reaching the next level of video performance in adverse visual conditions



CMA-2700 Scene



Visual Scene

FEATURES

- Type Certified as part of EFVS for operational credits by TCCA, EASA, and FAA
- Next-generation image processing: Advanced Digital Signal Processing (DSP)
- The industry's highest level of certification: Level B certification to DO-178B and DO-254
- Interfaces compatible with dual digital HUD installations
- Compatible with the CMA-2600 family of Integrated Sensor Systems for retrofit applications
- Compliant with latest DO-315B and ready for EFVS II certification

CMA-2700 Integrated Sensor Systems for Enhanced Flight Vision System Applications — Specifications

APPLICATION

Business and air transport operators seeking additional operational credits combining the next generation of ISS within an Enhanced Flight Vision System (EFVS)

WEIGHT

Less than 21 lb

FIELD OF VIEW

30° x 30°

SENSOR TECHNOLOGY

- Cooled Indium Antimonide (InSb) Focal Plane Array
- Sealed, Stirling cycle cooler - no maintenance required
- Highest resolution ISS for EFVS applications: 512 x 512 pixels
- Next-generation image processing: advanced 14-bit digital processing
- Improved optics and wave band filtering

DETECTED WAVELENGTHS

- Multi band filtering
- 1.4 – 2.5 microns shortwave infrared
 - 3.5 – 5.0 microns midwave infrared

CERTIFICATION STANDARDS

- Hardware: RTCA DO-160F
- Software: RTCA DO-178B, DAL B
- Firmware: RTCA DO-254, DAL B

TEMPERATURE (Continuous)

-55° C to + 50° C

INPUT POWER

28 Volts DC – 70 watts (nominal)

INSTALLATION CONFIGURATIONS

- Sensor may be installed upright or inverted with image inversion selectable on installation
- Mechanical and electrical compatibility with the CMA-2600 — ideal for retrofit of legacy CMC EFVS

SENSOR CONTROL INPUTS

ARINC 429 and discrete signals for installation flexibility

- Display configuration
- Sensor orientation
- Sensor on/off/standby
- Non uniformity calibration (NUC)
- Infrared window (IRW) temperature

SENSOR OUTPUTS

- Two (2) ARINC 818 Digital Optical Interfaces
- Two (2) ANSI/SMPTE 170M (formerly RS-170 monochrome NTSC)
- Sensor status (via ARINC 429 and A818)
- Aircraft IR window heater control (when desired)
- Supports EFVS with dual Head-Up Display installations

BUILT IN TEST (BIT)

- Power up testing
- Continuous Integrity Monitoring
- On request testing

See More with CMA-2700



CMA-2600



CMA-2700

4X The Resolution
OF PREVIOUSLY CERTIFIED SYSTEMS

For more information, visit www.cmcelectronics.ca
or email us at sales@cmcelectronics.ca